

Title (en)

METHOD FOR WETTING HYDROPHOBIC POROUS POLYMERIC MEMBRANES TO IMPROVE WATER FLUX WITHOUT ALCOHOL TREATMENT

Title (de)

VERFAHREN ZUR BENETZUNG HYDROPHOBER PORÖSER POLYMERMEMBRANEN ZUR VERBESSERUNG DES WASSERFLUSSES OHNE ALKOHOLBEHANDLUNG

Title (fr)

PROCEDE PERMETTANT D'HUMIDIFIER DES MEMBRANES POLYMERES POREUSES HYDROPHOBES AFIN D'AMELIORER LE FLUX D'EAU SANS TRAITEMENT A L'ALCOOL

Publication

EP 1711245 A4 20081119 (EN)

Application

EP 05705334 A 20050107

Priority

- US 2005000621 W 20050107
- US 53463004 P 20040107

Abstract (en)

[origin: US2005147757A1] A method is provided for substantially instantaneously wetting hydrophobic, porous polymeric membranes and for rendering hydrophobic membranes hydrophilic. The method involves treating the membrane with a non-alcoholic aqueous solution of a low molecular weight surfactant, and then drying the treated membrane. The low molecular weight surfactant exhibits high polymer affinity for the hydrophobic membrane substrate as well as high water solubility; a preferred surfactant is sodium dodecylbenzenesulfonate (SDBS). The method is particularly useful for treating hydrophobic membranes such as those made of polyolefins, fluorinated or chlorinated polymers, polysulfone, or polyethersulfone, preferably having a pore size of about 0.01 microns to about 1 micron. A wettable membrane is thus provided as the aqueous surfactant solution is absorbed into the hydrophobic membrane.

IPC 8 full level

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CPC (source: EP US)

B01D 67/0088 (2013.01 - EP US); **B01D 69/02** (2013.01 - EP US); **C08J 7/056** (2020.01 - EP US); **C08J 7/065** (2013.01 - EP US); **B01D 2323/02** (2013.01 - EP US); **B01D 2323/08** (2013.01 - EP); **B01D 2323/081** (2022.08 - US)

Citation (search report)

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- [X] JP S5794307 A 19820611 - NITTO ELECTRIC IND CO
- [X] EP 0381757 A1 19900816 - TERUMO CORP [JP]

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DOCDB simple family (application)

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